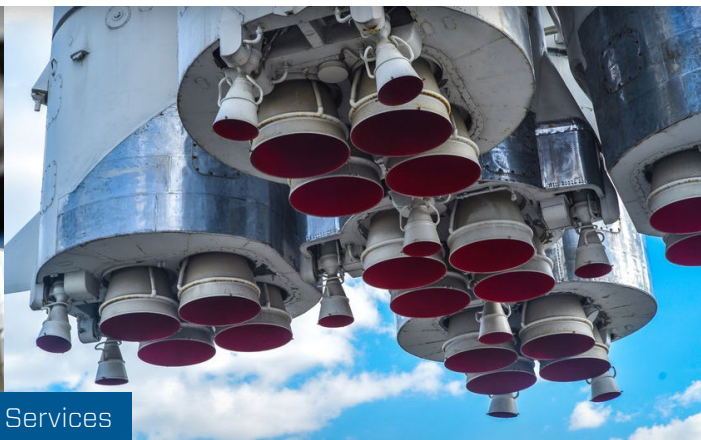




Swagelok® Aerospace Products & Services

Solutions for Aerospace

Performance and Reliability to Take You Further

Engineered for High Risk Environments

Swagelok® understands the importance of safety and reliability in high-risk environments. As a designer and manufacturer of high-quality fluid system components we outperform other fittings in three key areas:

1) tube grip 2) gas seal, and 3) vibration resistance.

Our local technical support can help with product selection; our local engineering can take your P&ID and bring it to a realized design with BOM, and our local assembly services can deliver a panel or assembly—tested, ready-to-install, and backed by the Swagelok Limited Lifetime Warranty.

Material Science Matters

The unfailing reliability of the Swagelok® tube fitting is the result of our proven design, manufacturing excellence, and superior raw materials. Chromium and nickel are critical for corrosion resistance and ductility in stainless steel. Swagelok proprietary stainless steel alloys exceed ASTM requirements for both elements.

Raw materials undergo extensive testing, including 100% ultrasonic analysis (identifies abnormalities) and eddy current testing (detects cracks). Popular materials for aerospace applications include stainless steel and titanium (Grade 4).

Built to Perform. Made by Swagelok.

Swagelok products are designed to meet key fluid system requirements of the aerospace industry and feature fittings, valves, and tubing for medium- (20 000 psi) and high-pressure (40 000 psi). Applications that specify pressures up to 45 000-60 000 psi are made of high-quality 316 stainless steel (often STM A479) to ensure superior corrosion resistance, strength, and durability.

Our medium- and high-pressure solutions include, but are not limited to, those listed below:



- Fittings
- Valves (Check, Relief, Bellows, Ball)
- Hoses, Tubing and Tube Accessories
- Regulators
- Gauges
- Quick Connects
- Welding Purge Panels
- Orbital Weld Systems



Engineered for Reliability

High quality components are only part of the solution. Swagelok welding systems are trusted by aerospace technicians fabricating their own fluid systems in stainless steel, titanium and other alloys. Swagelok Southern California [field engineers](#) bring industry-specific knowledge backed by the strength of a global network and are available to:

- Audit and troubleshoot existing systems for performance improvements
- Provide guidance for concept to completion on new products
- Optimize fluid system layout to improve safety, efficiency and reduce risk of leaks
- Assist with P&ID, CAD and BOM development including guidance with product selection to improve lead-times and minimize cost



Proven Quality for Mission-Critical Systems

Any panel or assembly is built only by Swagelok-certified assemblers, using processes controlled by the Swagelok Quality System (SQS). SQS maintains a strict audit calendar and has been vigorously validated by the internationally recognized certifying body, British Standards Institute (BSI).

Swagelok Southern California has provided components, panel assemblies, enclosures, test consoles, feed systems, and other assemblies for application such as:

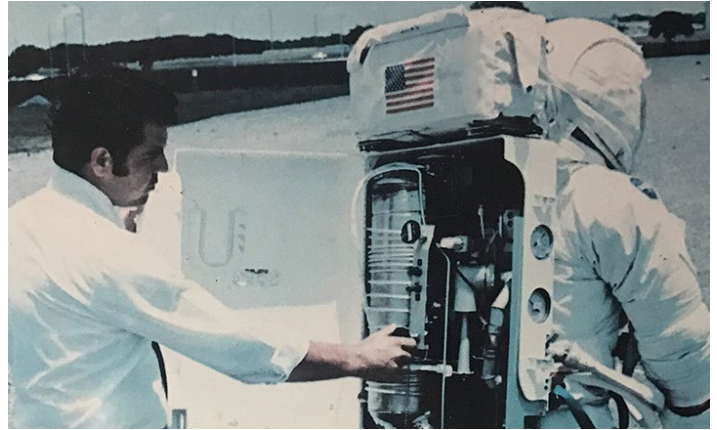
- Chemical propulsion systems; ground and test equipment
- Launch vehicles, landers, and payload
- Life support systems and potable water systems

Our [local capabilities](#) include high volume, repeatable CNC tube bends, orbital welding, high-purity cleaning (IEST 100A) and high-pressure testing, up to 60K psi.

Partner with us to stay on schedule with the right expertise, products, and services.

Did You Know About...

Swagelok's long history with NASA? Our products have supported missions to the Moon and Mars, including Apollo IX in 1969, where we helped keep astronauts breathing and the Viking I Mars mission to collect soil samples. More recently, in 2022, NASA evaluated Swagelok VCR® fittings for spaceflight conditions, with all samples meeting leak rate requirements. The report identified them as a viable option for flight systems.



Lunch and Learn with Swagelok

One-on-One Opportunity

Take a seat with Swagelok Southern California field engineers and industry experts for an interactive lunch-and-learn tailored for you.



Let us bring mission-ready solutions to your facility. Enjoy a free lunch while exploring real Swagelok components and panel assemblies designed for aerospace environments—ask questions, review applications, and discover what's possible.

Contact Us

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